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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,571	04/30/2001	Yves Schabes	TGS-00201	5344
ATTORNEY/A	7590 06/27/200 GENT	EXAMINER		
Choate, Hall & Stewart 53 State Street Exchange Place			CHOJNACKI, MELLISSA M	
			ART UNIT	PAPER NUMBER
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			06/27/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	09/845,571	SCHABES, YVES; ET AL.		
Office Action Summary	Examiner	Art Unit		
	MELLISSA M. CHOJNACKI	2164		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>17 L</u> This action is <b>FINAL</b> . 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4)  Claim(s) 1-5 and 32-46 is/are pending in the a 4a) Of the above claim(s) is/are withdra 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-5 and 32-46 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examina 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the I drawing(s) be held in abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate		

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#### **DETAILED ACTION**

### Remarks

1. In response to communications filed on December 17, 2008, claims 1, 35, 37 and 45 have been amended, no new claims have been cancelled or added. Therefore, claims 1-5 and 32-46 are presently pending in this application.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3-11, 14 and 29-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Brown et al. (U.S. Patent No. 6,665,666).

As to claim 1, <u>Brown et al.</u> teaches a method of answering a question based on information stored on a computer readable medium (See abstract; column 1, lines 22-27) comprising the steps of

parsing a question (See column 3, lines 47-60);

generating an analyzed question (See column 5, lines 7-10; column 11, lines 61-65), including a first identification of a syntactic category assigned to a portion of the parsed question (See \*);

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identifying at least one predetermined question patterns (See column 2, lines 39-43; column 3, lines 66-67; column 4, lines 1-7) including a second identification of a syntactic category matching the first identification of a syntactic category (See column 1, lines 37-57; column 14, lines 3-48);

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transforming the one or more identified question patterns into one or more partially unspecified statements the transforming including matching each of the identified question patterns to a set of predetermined transformations corresponding to the one or more partially unspecified statements (See column 3, lines 56-66, where "predetermined transformations" is read on "templates"), wherein each of the partially unspecified statements is missing a portion corresponding to an answer and the predetermined transformations describe syntactic variations of one or more terms included in the question (See column 1, lines 37-57; column 14, lines 3-48);

generating partially unspecified queries corresponding to the partially unspecified statements (See column 3, lines 56-66); and

obtaining answers by matching the partially unspecified queries to stored information (See abstract; column 3, lines 38-67; column 4, lines 1-13).

As to claims 2 and 38, <u>Brown et al.</u>, teaches transforming matched question patterns into one or more partially unspecified statements using syntactic frames (See <u>Brown et al.</u>, column 1, lines 37-57; column 14, lines 3-48).

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As to claims 3 and 39, <u>Brown et al.</u>, teaches collecting answers from matching the partially unspecified queries across a plurality of documents in the stored information (See Brown et al., abstract; column 3, lines 48-60).

As to claims 4 and 40, <u>Brown et al.</u> teaches ranking each obtained answer according to its frequency of matching (See <u>Brown et al.</u>, column 9, lines 4-10; column 13, lines 11-17).

As to claims 5 and 41, <u>Brown et al.</u> teaches wherein the stored information comprises a set of documents and an index identifying which documents within the set of documents contain terms or groups of terms answering the partially unspecified queries (See <u>Brown et al.</u>, abstract; column 1, lines 38-52; column 4, lines 50-53; column 5, lines 33-35, lines 50-57).

As to claims 32, 36, 42 and 46, <u>Brown et al.</u> teaches wherein the partially unspecified statements include at least one syntactic or morphological restriction (See <u>Brown et al.</u>, column 1, lines 37-57; column 14, lines 3-48).

As to claims 33 and 43, <u>Brown et al.</u> teaches wherein generating the partially unspecified queries further includes: replacing a generic syntactic or morphological category with one or more corresponding elements from the question (See <u>Brown et al.</u>, abstract; column 1, lines 37-57; column 14, lines 3-48); wherein the code that generates

the partially unspecified queries further includes code that: replaces a generic syntactic or morphological category with one or more corresponding elements from the question (See <u>Brown et al.</u>, abstract; column 1, lines 37-57; column 14, lines 3-48).

As to claims 34 and 44, <u>Brown et al.</u>, teaches wherein a first of the partially unspecified statements is transformed into more than one partially unspecified queries in accordance with a mapping of a question word to more than one corresponding partially unspecified term (See <u>Brown et al.</u>, column 3, lines 48-60; column 4, lines 1-13; column 9, lines 38-40); wherein a first of the partially unspecified statements is transformed into more than one partially unspecified queries in accordance with a mapping of a question word to more than one corresponding partially unspecified term (See Brown et al., column 3, lines 48-60; column 4, lines 1-13; column 9, lines 38-40).

As to claim 35, <u>Brown et al.</u> teaches a method of answering a question (See abstract; column 1, lines 22-27) comprising the steps of: parsing a question (See column 3, lines 47-60);

generating an analyzed question (See column 5, lines 7-10; column 11, lines 61-65), including a first identification of a syntactic category assigned to a portion of the parsed question (See \*);

identifying at least one predetermined question patterns (See column 2, lines 39-43; column 3, lines 66-67; column 4, lines 1-7) including a second identification of a

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syntactic category matching the first identification of a syntactic category (See column 1, lines 37-57; column 14, lines 3-48);

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transforming the one or more identified question patterns into one or more partially unspecified statements the transforming including matching each of the identified question patterns to a set of predetermined transformations corresponding to the one or more partially unspecified statements (See column 3, lines 56-66, where "predetermined transformations" is read on "templates"), wherein each of the partially unspecified statements is missing a portion corresponding to an answer and the predetermined transformations describe syntactic variations of one or more terms included in the question (See column 1, lines 37-57; column 14, lines 3-48);

generating partially unspecified queries corresponding to the partially unspecified statements (See column 3, lines 56-66); and obtaining answers by matching the partially unspecified queries to stored information (See abstract; column 3, lines 38-67; column 4, lines 1-13).

As to claim 37, <u>Brown et al.</u> teaches a computer program product for answering a question comprising code (See abstract; column 1, lines 22-27) that: parsing a question (See column 3, lines 47-60);

generating an analyzed question (See column 5, lines 7-10; column 11, lines 61-65), including a first identification of a syntactic category assigned to a portion of the parsed question (See \*);

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identifying at least one predetermined question patterns (See column 2, lines 39-43; column 3, lines 66-67; column 4, lines 1-7) including a second identification of a syntactic category matching the first identification of a syntactic category (See column 1, lines 37-57; column 14, lines 3-48);

transforming the one or more identified question patterns into one or more partially unspecified statements the transforming including matching each of the identified question patterns to a set of predetermined transformations corresponding to the one or more partially unspecified statements (See column 3, lines 56-66, where "predetermined transformations" is read on "templates"), wherein each of the partially unspecified statements is missing a portion corresponding to an answer and the predetermined transformations describe syntactic variations of one or more terms included in the question (See column 1, lines 37-57; column 14, lines 3-48);

generates partially unspecified queries corresponding to the partially unspecified statements (See column 3, lines 56-66); and obtains answers by matching the partially unspecified queries to stored information (See abstract; column 3, lines 38-67; column 4, lines 1-13).

As to claim 45, <u>Brown et al.</u> teaches a computer program product for answering a question based on information stored on a computer-readable medium (See abstract; column 1, lines 22-27) comprising code that:

parsing a question (See column 3, lines 47-60);

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generating an analyzed question (See column 5, lines 7-10; column 11, lines 61-65), including a first identification of a syntactic category assigned to a portion of the parsed question (See \*);

identifying at least one predetermined question patterns (See column 2, lines 39-43; column 3, lines 66-67; column 4, lines 1-7) including a second identification of a syntactic category matching the first identification of a syntactic category (See column 1, lines 37-57; column 14, lines 3-48);

transforming the one or more identified question patterns into one or more partially unspecified statements the transforming including matching each of the identified question patterns to a set of predetermined transformations corresponding to the one or more partially unspecified statements (See column 3, lines 56-66, where "predetermined transformations" is read on "templates"), wherein each of the partially unspecified statements is missing a portion corresponding to an answer and the predetermined transformations describe syntactic variations of one or more terms included in the question (See column 1, lines 37-57; column 14, lines 3-48);

transforming the one or more matched question patterns into one or more partially unspecified statements the transforming including matching each of the matched question patterns to a set of predetermined transformations corresponding to the one or more partially unspecified statements (See column 3, lines 56-66, where "predetermined transformations" is read on "templates"),

generates partially unspecified queries corresponding to the partially unspecified statements (See column 3, lines 56-66); and

obtains answers by matching the partially unspecified queries to stored information (See abstract; column 3, lines 38-67; column 4, lines 1-13).

### Response to Arguments

In response to applicants' arguments regarding "'666 patent does not teach or suggest transforming one or more identified question patterns into one or more partially unspecified statements, the transforming including matching each of the identified questions into patterns to a set of predetermined transformations corresponding to the one or more partially unspecified statements", the arguments have been fully considered but are not found to be persuasive, because Brown '666 discloses "pattern file" (question patterns), which consist of "question templates" (unspecified statements) and replacing it with the associated set of QA-tokens (Predetermined transformations) (See column 3, lines 48-66). Furthermore, column 14, lines 3-48 discloses augmenting during the tokenization process where questions are matched and transformed.

### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELLISSA M. CHOJNACKI whose telephone number is (571)272-4076. The examiner can normally be reached on 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571) 272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

June 19, 2008 Mmc

/Charles Rones/ Supervisory Patent Examiner, Art Unit 2164